

Application No.: 10/795,835

Attorney Docket No.: 030.P001

AMENDMENT**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the current application:

Listing of the claims.

1. (Currently Amended) An instrument to extract ~~useful for extracting~~ live hair follicles from mammalian skin tissue, the instrument comprising which device comprises:

a) a main body portion having a first end portion, a second end portion, and a longest length dimension, and further comprising a first bore centrally disposed therethrough, wherein the axis of said first bore runs parallel to said longest length dimension of said main body portion, and wherein said first bore comprises an inner surface within said main body;

b) a nipple end portion having a first end portion and a tip portion, and further including a second bore centrally disposed therethrough, wherein said first end portion of said nipple end portion is attached to said second end portion of said main body portion, and wherein said second bore comprises an inner surface within said nipple end;

c) a tubular punch means having a first end portion and a sharp end portion, wherein said tubular punch exists substantially in the form of a hollow cylinder having an interior space, and an outer diameter, and wherein said tubular punch means is slidably disposed within said second bore;

d) a stabilizer means disposed within said first bore and in contact with said tubular punch means; and

Application No.: 10/795,835

Attorney Docket No.: 030.P001

e) an adjustment screw comprising a head portion, a threaded outer surface, and an end, wherein said adjustment screw is disposed within said first bore such that its threaded outer surface is in effective mechanical contact with said inner surface within said main body, and wherein said end of said adjustment screw is disposed to be ~~[[in]]~~ selectively contactable with at least one element selected from the group of: said stabilizer and said tubular punch means.

2. (Currently Amended) ~~The An~~ instrument according to claim 1 wherein said stabilizer includes a third bore disposed therethrough that is adapted to receive said tubular punch means such that said stabilizer means is coextensively disposed about said tubular punch means.

3. (Currently Amended) ~~The An~~ instrument according to claim 2 wherein said stabilizer means and said tubular punch means are both slidably disposed as a unit within said first bore and said second bore respectively.

4. (Currently Amended) ~~The An~~ instrument according to claim 2 wherein said stabilizer means is stationary within said first bore, and wherein said tubular punch means is slidably disposed within said second bore and said third bore.

5. (Currently Amended) ~~The An~~ instrument according to claim 1 wherein said sharp end portion of said tubular punch means is flat, or is angled at any degree between about 30 degrees and about 90 degrees.

6. (Currently Amended) ~~The An~~ instrument according to claim 1 wherein said adjustment screw includes a head portion and an end portion, and further comprises a fourth bore

Application No.: 10/795,835

Attorney Docket No.: 030.P001

centrally disposed through its length.

7. (Currently Amended) The ~~An~~ instrument according to claim 6 wherein said fourth bore extends from said head portion to said end portion.

8. (Currently Amended) The ~~An~~ instrument according to claim 6 wherein said interior space within said tubular punch means is in fluid communication with said fourth bore disposed within said adjustment screw.

9. (Currently Amended) The ~~An~~ instrument according to claim 6 wherein said stabilizer includes a third bore disposed therethrough, and wherein said first end portion of said tubular punch means is disposed within said third bore through said stabilizer means such that said stabilizer means and said tubular punch means are both slidably disposed as a unit within said first bore and said second bore respectively.

10. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein said first bore extends from said first end portion to said second end portion of said main body portion.

11. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein said second bore extends from said first end portion to said tip portion of said nipple end portion.

12. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein said main body portion is substantially cylindrically shaped.

13. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein the tubular punch means has an outer surface, and wherein the outer surface of said tubular punch

Application No.: 10/795,835

Attorney Docket No.: 030.P001

means is in contact with the inner surface of said second bore disposed within said nipple end portion.

14. (Currently Amended) The An instrument according to claim 1 wherein said nipple end portion is substantially cylindrically shaped.

15. (Currently Amended) The An instrument according to claim 1 wherein said first bore and said second bore have the same diameter.

16. (Currently Amended) The An instrument according to claim 1 wherein the diameter of said second bore is less than the diameter of said first bore.

17. (Currently Amended) The An instrument according to claim 1 wherein the diameter of said second bore is greater than the diameter of said first bore.

18. (Currently Amended) The An instrument according to claim 1 wherein the outer diameter of the tubular punch means is smaller than the inner diameter of said second bore.

19. (Currently Amended) The An instrument according to claim 1 wherein said nipple end and main body comprise a single construct.

20. (Currently Amended) The An instrument according to claim 1 wherein said sharp end of said tubular punch means comprises a beveled edge.

Application No.: 10/795,835

Attorney Docket No.: 030.P001

21. (Currently Amended) The An instrument according to claim 1 wherein said stabilizer means comprises ~~is comprised of~~ an elastomeric material selected from the group consisting of: polyolefin homopolymers, polyolefin copolymers, thermoplastic vulcanizates, and thermoset elastomers.

22. (Currently Amended) The An instrument according to claim 1 wherein said tubular punch means is metallic.

23. (Currently Amended) The An instrument according to claim 1 wherein said tubular punch means further includes an inner diameter which is substantially uniform along the entire length of said tubular punch means.

24. (Currently Amended) The An instrument according to claim 23 wherein the inner diameter of said tubular punch means is any diameter in the range of between about 0.5 millimeters and about 4.5 millimeters.

25. (Currently Amended) The An instrument according to claim 1 wherein said nipple end portion comprises a flat surface which is adapted to contact the skin of a patient, wherein the total surface area of said nipple end which contacts said patient is in the range of between about 5 square millimeters and about 25 square millimeters.

26. (Currently Amended) The An instrument according to claim 1 wherein the inner diameter of the tubular punch means is any diameter in the range between about 0.5 millimeters and about 4.5 millimeters.

Application No.: 10/795,835

Attorney Docket No.: 030.P001

27. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein the outer diameter of the tubular punch means is about 0.2 to about 0.3 millimeters greater than the inner diameter of said tubular punch means.

28. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein the length dimension of said nipple end is in the range of between about 0.03 millimeters and about 10 millimeters.

29. (Currently Amended) The ~~An~~ instrument according to claim 1 wherein the diameter of said second bore is about 0.1 millimeters smaller in diameter than the outer diameter of said tubular punch means.

30. (Canceled)

31. (Canceled)

32. (Currently Amended) An instrument to extract live hair follicles from mammalian skin tissue, the instrument comprising:

a) a nipple end portion having a first end portion and a tip portion, said nipple end portion having a longest length dimension and further including a bore disposed therethrough having an axis is parallel to said longest length dimension, said bore comprising an inner surface within said nipple end;

b) a tubular punch which exists substantially in the form of a hollow cylinder having two open ends, an interior space, and an outer diameter not exceeding about 5.0 millimeters, wherein at least one end of said tubular punch means is a cutting end which is capable of piercing said skin tissue, said tubular punch means further including an

Application No.: 10/795,835

Attorney Docket No.: 030.P001

inner diameter between about 0.5 millimeters and 4.5 millimeters, which is substantially uniform along the entire length of said tubular punch means, said tubular punch means being slidably disposed within said bore such that its cutting end is capable of coinciding with said tip portion of said nipple end portion when the tubular punch means does not protrude outward from said tip portion; and

c) a threaded screw to adjust a position of the tubular punch within said bore and control of an amount which said cutting end protrudes from said tip portion of said nipple end portion. ~~An instrument according to claim 30 wherein said means for adjusting the position of the tubular punch means within said bore comprises a said threaded screw having an end portion which is in effective mechanical contact with said tubular punch means, and a stationary portion capable of engaging with the threads on said threaded screw, wherein said stationary portion is in effective mechanical contact with said nipple end portion.~~

33 – 37. (Canceled)